

NEW



FMM INSTITUTE, Johor Branch
Centre for Professional Development

SPC Level 1

Histogram, Control Charts & Capability Indices

16 & 17 May 2012 (Wed-Thur)

Quality is a survival issue. In today's competitive market, it is not enough to practice "traditional" quality control methods such as inspiration. This training will enable the trainees to practice basic statistical tools in their day to day work.

OBJECTIVES

This two days training is designed as a hands-on skill-development Program that avoids complicated Statistical & Mathematical theories and leads straight into the application of the principles.

Upon completion of the programme the participants will be able to;

- Explain the need to use SPC in Quality Control
- Calculate Standard deviation for a set of data and explain its meaning
- Construct a Histogram and analyse it
- Plot Control charts
- Calculate Cp & Cpk values and compare against customer requirements.



CONTENTS

Basic of Quality

- Meaning of quality
- Measuring quality
- Quality Control & Quality Assurance
- The challenge of quality in competitive industries

Basic of Statics

- Concept of variation
- Common cause and Special cause variations
- Measuring variation
- Standard deviation
- Normal distribution
- Practical 1 : Calculate Standard Deviation

Histogram

- Collection of Data
- How to draw a Histogram
- Analysing Histogram
- Uses of Histogram
- Practical 2: Construct a Histogram

Control Charts

- Relationship between Histogram & Control Chart
- Control limit calculation
- Difference between Specification & Control limits
- How to construct a Control chart
- Out of control condition
 - Condition
 - Meaning
 - What to do
- Various types of control charts (x-R, moving range, p & nP)
- Practical 3: Plot x-R control Chart
- Practical 4: Plot m-R control chart

Process Capability

- Meaning of Cp & Cpk
- Calculation of Cp & Cpk
 - Using Control chart data
 - Using checksheet data
- Why customer ask for Cp & Cpk?
- What to do if Capability too low?
- Practical 5: Calculate Cp & Cpk for process

Implementation

- PDCA cycle
- How to apply skills at workplace
- Q & A Session

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 16 & 17 May 2012 (Wednesday-Thursday)

WHO SHOULD ATTEND

Manager, Executives, Engineers, Technician and Supervisors in Manufacturing, QA, QC and Marketing Dept. The participants are expected to be familiar with basic Quality Control tools such as Check-Sheets, Pareto and Fish-bone Chart

FACILITATOR

En.Muhsin Ahamed has been in the manufacturing industry for over 10 years, working his way up from Production Supervisor to Manufacturing Section Head to HR Development Manager. He has in-depth hands-on experience in various areas of manufacturing such as production, scheduling, planning and testing. In addition, his manufacturing experience also includes the set-up of new production lines. A degree holder with a Bachelor of Science in Chemistry, En. Muhsin also holds several diplomas and certificates in Management, Electronics Engineering, Computer Programming and Technology based Training. He has designed, developed and implemented various training programmes in Management, Supervisory, Quality Control and Manufacturing Technology.

ADMINISTRATIVE DETAILS

Date : 16 & 17 May 2012 (Wed-Thur)
Duration: 2 days
Time : 9:00am - 5:00pm
Venue : FMM INSTITUTE, Johor Branch
 1&3,Jalan Kencana Mas 1/1
 Tebrau Business Park
 81100 Johor Bahru.
Fees : RM600.00 (FMM Member)
 RM750.00 (Others)

(Fees include course material, lunch, refreshments & Certificate of Attendance)

Medium of Instruction : English
Closing Date : 9 May 2012
PSMB Scheme : SBL

PSMB Registered No: 0268
(FMM Headquarter Kuala Lumpur)

For further enquiries, please contact;
FMM Institute
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Email: azrina@fmm.org.my / omar@fmm.org.my

-REGISTRATION FORM-

Dear Sir / Madam,

Please register the following participant(s) for the above programme

1 Name : _____
 Designation : _____
 Email : _____
 : _____
 : _____

2 Name : _____
 Designation : _____
 Email : _____
 : _____
 : _____

Submitted by:

Name : _____
 Designation : _____
 Company : _____
 Address : _____
 : _____
 Email : _____
 Tel no : _____
 Fax no : _____
 : _____

(if space is insufficient, please attach a separate list)

Enclosed cheque/bank draft No _____ for RM _____ being payment for _____ participant(s) made in favour of the **“FMM Institute”**.

- * There will be no refund for cancellation within 2 days prior to the programme; 50% refund for cancellation between 3-6 days;
- * Full refund for cancellation 7 days prior to the programme; Cancellation must be in writing.
- * Replacement can be accepted at no additional cost.
- * The FMM reserves the right to change the facilitator, date or reschedule the above programme and all efforts will be taken to inform participants of the changes.